

# List of Plants

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\*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	Plant Part	Low PPM	High PPM	StdDev	*Reference
<i>Angelica archangelica</i>	Root Essent. Oil	--	--		*
<i>Angelica archangelica</i>	Root	--	18.0		*
<i>Apium graveolens</i>	Seed	--	--		Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
<i>Atractylodes lancea</i>	Rhizome	--	--		*
<i>Boswellia serrata</i>	Essential Oil	--	12000.0	-1.0	*
<i>Boswellia serrata</i>	Resin, Exudate, Sap	--	2080.0		Sabinsa: A series of well documented proprietary PR booklets, e.g.Sabinsa Corps. 1998. Bronchial Asthma - Its etiology and control with traditional herbal extracts. Sabinsa Corporation. Piscataway, NJ. 49 pp.
<i>Canarium indicum</i>	Essential Oil	15000.0	37500.0	1.0	*
<i>Citrus sinensis</i>	Root Bark	--	28200.0		Jim Duke's personal files.
<i>Commiphora myrrha</i>	Essential Oil	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
<i>Coriandrum sativum</i>	Seed Essent. Oil	--	4130.0		*
<i>Coriandrum sativum</i>	Fruit	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
<i>Cymbopogon winterianus</i>	Plant	40.0	420.0	2.43	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Cymbopogon nardus</i>	Plant	51.0	204.0	0.85	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Elsholtzia blanda</i>	Shoot	--	0.4	-1.4	Bestman, H.J., Rauscher, J., Vostrowsky O., Pant, A.K., Dev. V., Perihar, R. and Mathela, C.S. 1992. Constituents of the Essential Oil of Elsholtzia blanda Benth. (Labiatae). J. Ess. Oils Res. 4: 121-124
<i>Ginkgo biloba</i>	Wood	--	--		Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
<i>Ginkgo biloba</i>	Heart Wood	--	--		Jim Duke's personal files.
<i>Glechoma hederacea</i>	Plant	1.0	3.0	-0.62	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Hypericum perforatum</i>	Plant	0.25	4.5	-0.61	*
<i>Hyssopus officinalis</i>	Leaf	0.4	608.0	-0.3	Flavour and Fragrance Journal, 6: 72.
<i>Hyssopus officinalis</i>	Flower	21.0	215.0		Flavour and Fragrance Journal, 6: 72.
<i>Juniperus virginiana</i>	Leaf	--	--		*
<i>Juniperus sabina</i>	Plant	--	--		*
<i>Lycopus uniflorus</i>	Plant	--	1.0	-0.64	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Magnolia denudata</i>	Flower	--	--		*
<i>Magnolia denudata</i>	Twig	--	--		*

denudata					
Magnolia denudata	Leaf	--	--		*
Magnolia denudata	Bark	--	--		*
Mentha aquatica	Shoot	--	70.0	-0.67	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of <i>Mentha aquatica</i> Containing Sesquiterpene Alcohols as Major Components. <i>Nippon Nogeikagaku Kaishi</i> 67(10): 1417-1419.
Mentha spicata	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Mentha aquatica	Shoot	--	275.0	1.48	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of <i>Mentha aquatica</i> Containing Sesquiterpene Alcohols as Major Components. <i>Nippon Nogeikagaku Kaishi</i> 67(10): 1417-1419.
Mentha aquatica	Leaf	660.0	1870.0	1.35	*
Mentha aquatica	Shoot	--	70.0	-0.67	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of <i>Mentha aquatica</i> Containing Sesquiterpene Alcohols as Major Components. <i>Nippon Nogeikagaku Kaishi</i> 67(10): 1417-1419.
Mentha aquatica	Shoot	--	220.0	0.9	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of <i>Mentha aquatica</i> Containing Sesquiterpene Alcohols as Major Components. <i>Nippon Nogeikagaku Kaishi</i> 67(10): 1417-1419.
Mentha aquatica	Shoot	--	170.0	0.37	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of <i>Mentha aquatica</i> Containing Sesquiterpene Alcohols as Major Components. <i>Nippon Nogeikagaku Kaishi</i> 67(10): 1417-1419.
Myrrhis odorata	Leaf Essent. Oil	--	22000.0	1.0	*
Nardostachys jatamansi	Root	--	--		*
Ocimum basilicum	Essential Oil	--	--		*
Origanum vulgare	Plant	--	1.5	-0.63	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. <i>J. Ess. Oil Res.</i> , 5: 425-431.
Origanum vulgare	Plant	--	--	-0.64	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. <i>J. Ess. Oil Res.</i> , 5: 425-431.
Panax quinquefolius	Root Essent. Oil	2959.0	14637.0		*
Piper nigrum	Fruit Essent. Oil	--	1100.0		*
Pycnanthemum loomisii	Shoot	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Rosmarinus officinalis	Plant	7.0	32.0	-0.41	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Sideritis germanicoalpitana	Plant	80.0	213.0	0.91	<i>J. Essential Oil</i> , 4: 533.
Tagetes lucida	Shoot	--	--		Bicchi, C., Fresia, M., Rubiolo, P., Monti, D., Franz, C., Goehler, I. 1997. Constituents of <i>Tagetes lucida</i> Cav. ssp. <i>lucida</i> essential oil. <i>Flavor &amp; Fragrance</i> , 12(1): 47-52.
Thymus masticina	Plant	--	1.0	-0.64	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Valeriana officinalis	Root	--	--		*
Valeriana officinalis	Leaf Essent. Oil	--	1400.0	-1.0	*
Valeriana officinalis	Leaf	3.0	36.0	-1.05	Father Nature's Farmacy: The aggregate of all these three-letter citations.
Valeriana officinalis	Essential Oil	--	--		*
Valeriana officinalis	Root Essent. Oil	--	--		*
Vetiveria zizanioides	Root	--	--		*
Zingiber officinale	Rhizome Essent. Oil	--	3800.0		*
Zingiber officinale	Rhizome	3.0	190.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.